ANNEXURE NO. 12

[*Vide* Unstarred Question No. 2486 (a) answered on the 13th August, 2003]

Xth PLAN PROGRAMME/STATUS OF RENOVATION, MODERNISATION AND UPRATING OF HYDRO POWER SCHEMES ALONGWITH THERMAL UNITS IDENTIFIED FOR LIFE EXTENSION DURING 10th PLAN

(i) CENTRAL SECTOR

S. No.	Scheme Description	Estimated Cost (Rs. Crs.)	Scheme category	Expected Benefit MW	MU	Completion Schedule	Remarks
	Northern Region						
1.	Ganguwal U-1 BBMB 1962 1x29.25 MW	30.0 90.0 @ +12.56 (IDC) latest	RMU&LE	25.89 (LE) 2.09 (UR)	211.27 +17.05	2005-06 (6/05)	Ongoing
2.	Kotla U1, BBMB 1961 1x29.25 MW	30.0 @	RMU&LE	26.61 (LE) 2.35 (UR)	217.14 +19.17	2005-06 (12/05)	Ongoing
3.	Pong, BBMB 1978-83 6x60 MW	17.25@ 17.70 (Latest)	RM&UE	36 (UR)	5.77	2003-04	Ongoing
4.	Bhakra LB, BBMB 5x90 MW (Original) 1960-61 5x108 MW (Uprated in 1985)	178.00@ 97.60 (on pro-rata basis for one unit, Latest cost of all 5 units being 488.00)	RMU&LE	108 (LE) 18 (UR) (One Unit)	520 + 42.54	2006-07 (One unit) (4/06)	Ongoing
5.	Salal Ph-II, NHPC, J&K 1985-87 3x115 + 3x145 MW	20.00@ 110.0 (latest)	R&M + Res.	25 (Res.)	72	2004-05	Proposal awaited.

	Eastern Region						
1.	Maithon, DVC, Jharkhand, 1957-58 3x20 MW (IC) (Unit 2)	17.34@ 39.0 (Rev) 42.755 (Latest including NHPC charges of 1.575+0.75)	RMU&LE	20 (LE) 3.2 (UR)	66.22	2003-04 U(2): 6/03	Ongoing
2.	Panchet, DVC, Jharkhand 1959 1x40 MW (U-1 Conv.)	217@ 44.96 (latest including RLA 1.5 & NHPC charges of 2.1)	RM&LE	40 (LE)	87	2004-05 3/2005	Yet to commence.
	N.E. Region						
1.	Loktak NHPC 1983 3x35 MW	24.40@ 24.50 (latest)	R&M + Res.	15.00 Res.	40.3	2004-05	Tendering process is in progress.
2.	Khandong, NEEPCO 1984 2x25 MW	15.00@ 4.00 (Latest received on 25.2.02)	R&M	-	-	2002-03 (Works are likely to be completed by by 4/2003)	Ongoing
3.	Koplili, NEEPCO 1988 2x50 MW 1997 2x50 MW	35.69	R&M (units 1&2)	-	-	2004-05	Proposal awaited

R&M — Renovation & Modernization, RM&U—Renovation Modernization & Uprating, RM&LE—Renovation, Modernization & Life Extension, RMU&LE — Renovation, Modernization, Uprating & Life Extension,
Res. — Restoration, @ — as per National Perspective Plan.

S. No.	Scheme Description	Estimated Cost (Rs. Crs.)	Scheme category	Expected Benefit MW	MU	Completion Schedule	Remarks
(ii) STATE SECTOR							
	I. SCHEMES COMPLETED						
	Southern Region						
	Karnataka						
1.	Nagjhari (U1&3) KPCL 1979-84 2x135 MW	26.12@ (includes 4.84 sanctioned under APDP)	RM&U	30(UR)	-	2002-03	
2.	Supa PH, KPCL 1985 2x50 MW	2.05@ 2.64 (Latest)	R&M	-	-	2002-03	
3.	Mahatma Gandhi, VVNL 1947-52 4x12 + 4x18 MW	33.90 @ 44.66 (latest)	RMU&LE	120 (LE) 24 (UR)	250	2002-03	
4.	Munirabad Gen. Stn., VVNL, 1962-65 2x9 + 1x10.3 MW	10.00@ 3.64 (Latest)	RM&LE	28.3 (LE)	100	2002-03	
	Kerala						
5.	Pallivasal, KSEB St. I 1940-42 St.II 1948-51 3x5 + 3x7.5 MW	94.00@	RM&LE	37.5 (LE)	284	2002-03	
6.	Sengulam, KSEB 1954 4x12 MW	114.00@	RM&LE	48(LE)	184	2002-03	

	North-Eastern Region						
	Meghalaya						
7.	Umium St.I MeSEB 1965 4x9 MW	86.92@ St. I 81.88 (Latest)	RM&LE	36(LE)	-	2002-03 (01/03)	
II. SCHEMES UNDER EXECUTION							
	Northern Region						
	J & K						
1.	Lower, Jhelum, J&KPDC 1973-74 3x35 MW	20.00@ 65.19 (latest as appraised)	RM&U + Res.	9(UR) 25 (Res.)	81.6	2004-05 U(I)-10/04 U(2&3)- 3/05	Ongoing
	Punjab						
2.	Shanan H.E. Project PSEB 4x12 MW (1932) (Uprated to 4x15 MW (1982) 1x50 MW (1982)	11.89@ 11.35 (latest)	R&M	-	-	2002-03 (3/2003) (now likely to be completed by 3/04.)	Ongoing
	Uttaranchal						
3.	Chibro, UJVNL 1975 4x60 MW	5.32@ 18.50 (latest)	R&M	-	20	2004-05	Ongoing
4.	Chilla, UJVNL 1986-81 4x30 MW	31.85@ 47.10 (Latest)	R&M	-	60	2004-05	Ongoing

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Res. — Restoration, @ — as per National Perspective Plan.

S. No.	Scheme Description	Estimated Cost (Rs. Crs.)	Scheme category	Expected Benefit MW	MU	Completion Schedule	Remarks
5.	Khodri, UJVNL 1984 4x30 MW	5.42@ 9.63 (Latest)	R&M	-	10	2004-05	Ongoing
	Uttar Pradesh						
6.	Matatila, U.P. JVNL 1965 3x10.2 MW	25.38@ 92.35 (Latest)	RMU&LE	30.6 (LE) 10.2 (UR)	124	2005-06	Ongoing
7.	Obra, U.P. JVNL 1970-71 3x33 MW	33.00@ 14.50 (latest)	RM&LE	99 (LE)	283	2005-06	Ongoing
8.	Rihand, UP JVNL 1962-66 6x50 MW	110.21@ 96.06 (Latest as appraised)	RM&LE	300(LE)	860	2006-07	Ongoing
	Southern Region						
	Karnataka						
1.	Bhadra Ph.II, KPCL 1962-63 2x12 + 1x7.2 + 1x2 MW 1998 1x6 MW	3.00@ 3.30 (Latest)	RM&LE	2 (LE)	6	2002-03 (Confirmation regarding completion of works is awaited)	Ongoing
2.	Sharavathy Ph-A KPCL U1&U2 1964-65 U3 to 8 1967-77 U9 to 10 1976-77 10 x 103.5 MW	4.99@ 5.22 (Latest)	R&M	-	-	2003-04	Ongoing

3.	Shivasamudram, VVNL 1919-38 6x3 + 4x6 MW	68.38@	RM&LE	42(LE)	250	2003-04 (Expected by 9/2003)	Ongoing
	Kerala						
4.	Panniar, KSEB 1963-64 2x15 MW	62.00@	RM&LE	30(LE)	148	2002-03 (*Confirmation* regarding completion of works is awaited)	Ongoing
5.	Sabarigiri, KSEB 1966 6 x 50 MW	163.34@ 95.15 (As per revised proposal)	RMU&LE	300 (LE) 35 (UR) (UI toU5@5 MW U6 @ 10MW)	1338 + 26.76	2006-07 (likely by 2005-06)	Ongoing
6.	Neriamangalam, KSEB, 1961-63 3x15 MW	31.92@	RMU&LE	45 (LE) 9 (UR)	330.8	2006-07	Ongoing
	Tamil Nadu						
7.	Mettur Dam PH/TNEB 1937-48 4x10 MW	41.50@ 27.37 (latest)	RMU&LE	40 (LE) 10 (UR)	111.98	2004-05	Ongoing
8.	Papanasam, TNEB 1944-51 4x7 MW	40.23@ 22.79 (latest)	RMU&LE	28.0 (LE) 4.0 (UR)	105	2004-05	Ongoing
9.	Pykara, TNEB 1934-54	17.06@ 26.06 (latest)	RM&LE	58.95 (LE)	268.16 (calculated)	Slipped to 2003-04 from	Ongoing

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S. No.	Scheme Description	Estimated Cost (Rs. Crs.)	Scheme category	Expected Benefits MW	MU	Completion Schedule	Remarks
	3x6.65 + 1x11 + 2x14 MW (Excl. U-4)				on prorata basis against 318.20 MU excl. U-4)	2002-03 (Excl. U-4) and likely by 9/03 now.	
	Eastern Region						
	Orissa						
1	Hirakud I, OHPC (Burla) Switchyard Equipment	9.85@	R&M	-	-	2002-03 (Confirmation regarding completion of works is awaited)	Ongoing
2.	Hirakud-I (U3 & 4) (Burla), OHPC 1956-57 2x24 MW	131.56@ 126.13 (latest)	RMU&LE	48 (LE) 16(UR)	231.04	2004-05	Ongoing
3.	Hirakud II, OHPC (Chiplima) 1962-64 3x24 MW	50.00 @ 95-97 (Latest)	RM&LE	72 (LE)	376	2005-06	Ongoing
	West Bengal						
4.	Jaldhaka St. I + II WBSEB, 1967-83 3x9 + 2x4 MW	12.60@ 49.79 (Latest)	RM&LE	27 (LE of St-I units)	45 (St-I) 12.6 (St-II)	2004-05 3/2005) (Likely to slip to 4/2006 as reported by WBSEB vide their letter dt. 22.3.03)	Ongoing

	Western Region						
	Maharashtra						
1.	Bhira Tail Race PS, MSEB 1987-88 2x40 MW	1.80 @ 1.60 (latest)	R&M	-	-	2003-04	Ongoing
2.	Koyna Generating Coplex, MSEB St.-I 1962-63 4x70 MW St.-II 1966-67 4x80 MW St-III 1975 4x80 MW	14.00@	R&M	-	131	2003-04 (9/2003)	Ongoing
3.	Tillari HPS, MSEB 1986 1x60 MW	4.50@ 5.5 (latest)	RM&U	8.2 (UR)	-	2003-04	Ongoing
III-SCHEMES POSED FOR AG&SP/PFC FUNDING-YET TO BE APPROVED/WORKS YET TO COMMENCE							
	Northern Region						
	Himachal Pradesh						
1.	Bassi HPSEB 1970-81 4x15 MW	32.27 28.6 (Latest as appraised)	RMU&LE	60 (LE) 6(UR)	351	2004-05 (1/2005)	Appraised by CEA
	J & K						
2.	Chennai J&K PDC 1971-75 5x4 66 MW	16.88 23.86 (Latest as appraised)	RMU&LE	23.3(LE) 2.33 (UR)	123.36	2004-05	Appraised by CEA

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S. No.	Scheme Description	Estimated Cost (Rs. Crs.)	Scheme category	Expected Benefits MW	MU	Completion Schedule	Remarks
3.	Ganderpal J&K PDC, 1955-63 2x3 MW + 2x4.5 MW	33.76@ 28.87 (latest as appraised)	RM&LE	15 (LE)	93.64	2004-05 (2/05)	Appraised by CEA
4.	Sumbal Sindh, J&KPDC 1973-74 2x11.3 MW	11.00@ 23.135 16.372 (Latest as appraised)	RM&U	3(UR)	13.28	2004-05	Appraised by CEA
	Uttaranchal						
5.	Dhakrani, UJVNL 1965-70 3x11.25 MW	16.50@ 14.03 (Latest)	RM&LE	33.75 (LE)	160	2005-06	RLA completed Proposal awaited
6.	Dhalipur, UJVNL 1965-70 3x17 MW	25.50@ 11.64 (Latest)	RM&LE	51 (LE)	20	2005-06	RLA completed Proposal awaited
7.	Tiloth, UJVNL 1984 3x30 MW	7.27@ 14.82 (Latest)	R&M	-	30	2004-05	Clarification from UJVNL awaited
	Southern Region						
	Andhra Pradesh						
1.	Hampi APGENCO 1958-64 4x9 MW	38@	RM&LE	36(LE)	118	2006-07	Inter-State Concurrence of Karnataka awaited
2.	Machkund, APGENCO St.-I 1955-56 3x17 MW St.-II 1959 3x21.25 MW	89.11@ 124.45 (Latest)	RM&LE	114.75(LE)	675	2006-07	Appraised by CEA

3.	Tungabhadra Dam, APGENCO 1957-64 4x9 MW	38.00@	RM&LE	36 (LE)	118	2006-07	Inter-State Concurrence of Karnataka awiated
	Karnataka						
4.	Bhadra, KPCL 1962 (2 MW) 1963 (2x12+1x7.2 MW) 1998 (6 MW) 2x12 + 1x7.2 + 1x6 + 1x2 MW	6.15@ 6.00 (As per APDP) 5.70 (Latest)	RM&LE of 12 MW units	24 (LE)	25.3	2004-05	Yet to be taken up.
5.	Nagjhari, KPCL 1979-84 3x135 MW (U-4.5 & 6)	48.85@ 47.00 (Latest)	RM&U	45 (UR)	-	2006-07	Appraised by CEA
6.	Sharavathy (Ph-B) KPCL U1 & 2 1964-65 U3-8 1967-71 U9 & 10 1976-77 10x103.5 MW	16.88@	R&M	-	-	2004-05	Yet to be taken up.
	Tamil Nadu						
7.	Kodayar-II, TNEB 1971 1x40 MW	19.94@	RMU&LE	40 (LE) 6 (UR)	96	2006-07	Appraised by CEA

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RMU&LE — Renovation, Modernization, Uprating & Life Extension,
Res. — Restoration, @ — as per National Perspective Plan.
AG& SP : Accelerated Generation and Supply Programme

S. No.	Scheme Description	Estimated Cost (Rs. Crs.)	Scheme category	Expected Benefits MW	MU	Completion Schedule	Remarks
	Western Region						
	Maharashtra						
1.	Koyna, St.-I & II, MSEB St.-I 4x70 MW 1962-63 St li 4x80 MW 1966-67	8.00 @ 63.00 for P.H. + 25.00 for Sw.yard (latest)	R&M	-	-	2006-07 (9/06)	Proposal for P.H. sent to PFC, Proposal to PFC/REC for sw. yard likely by end 3/03
IV-SCHEMES REPORTED UNDER RLA STUDIES							
	Northern Region						
	Punjab						
1.	Shanan H.E. Project PSEB 4x12 MW (1932) 4x15 MW uprated (1982) 1x50 MW (1982)	35.95 (revised)	R&M	-	-	2006-07	Award of RLA is under process
	Rajasthan						
2.	Jawahar Sagar RSEB, 1972-73 3x33 MW	88.66@	RM&LE	99 (LE)	298	2006-07	Under RLA studies.
3.	Rana Pratap Sagar, RSEB, 1968-69 4x43 MW	87.50@	RM&LE	172 (LE)	459	2006-07	Award of RLA studies is under process.
	Uttaranchal						
4.	Khatima, UJVNL 1955-56 3x13.8 MW	20.00@	RM&LE	41.4 (LE)	198	2006-07	Award of RLA studies is under process.

5.	Pathri, UJVNL 1955 3x6.8 MW	27.49@	RM&LE	20.4 (LE)	40	2006-07	Award of RLA studies is under process.
	Western Region						
	Maharashtra						
1.	Koyna DAM PH MSEB 1980-81 2x18 MW	20.00@ 4.70	RM&U	8 (UR)	10	2006-07	Process for RLA studies taken up.
V. SCHEMES FOR WHICH DPRs ARE TO BE PREPARED/SUBMITTED							
Northern Region							
Punjab							
1.	Anand Pur Sahib PSEB, 1985 4x33.5 MW	150.00@ 4.20 (latest)	R&M	—	—	2003-04	Proposal awaited
2.	Mukerian St. I PSEB, 1983 3x15MW	6.30	R&M	—	—	2003-04	Proposal awaited
Uttaranchal							
3.	Kulhal, UJVNL 1975 3x10 MW	4.80@	R&M	—	10	2004-05	DPR is awaited
4.	Ramganga, UJVNLI 1975-77 3x66 MW	6.00@	Res	18 (Res)	-	2004-05	Revised DPR is awaited

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Res. — Restoration, @ — as per National Perspective Plan.

S. No.	Scheme Description	Estimated Cost (Rs. Crs.)	Scheme category	Expected Benefits MW	MU	Completion Schedule	Remarks
Southern Region							
Kerala							
1.	Kuttiadi KSEB 1972 3x25 MW	25.00@	RM&LE	75 (LE)	248	2006-07	Proposal awaited
2.	Poringalkuthu, KSEB 1957-60 4x8 MW	9.55@	RM&LE	32 (LE)	171	2006-07	DPR is yet to be submitted
Western Region							
Maharashtra							
1.	Koyna St. III, MSEB 1975-78 4x80 MW	14.00@ 20.00 (latest) (The cost is being revised to 16.71 as per DPR proposal)	R&M	-	-	2006-07	DPR sent to PFC on 25.3.2003 provide financing.
2.	Vaitarna, MSEB 1976 1x60 MW	2.70@ 6.70	RM&U	6 (UR)	10	2005-06	Proposal was to be sent to PFC by 1/03 (further details awaited)
N.E. Region							
Meghalaya							
1.	Kyredemkulai Meghalaya 1979 2x30 MW	7.40@ 25.00 (Latest)	RM&U	6(UR)	-	2004-05	Proposal awaited.

2.	Umium St. II Meghalaya 1970 2x9 MW	53.27@ 67.12 (Revised)	RM&LE	18 (LE)	-	2006-07	Posed for JBIC funding

(iii) **THERMAL UNITS IDENTIFIED FOR LIFE EXTENSION DURING 10TH PLAN**

Sl. No.	Name of Station	Unit No.	Present Rated Capacity (MW)	Capacity expected after LEP (MW)	Make		Year of Commi-sioning
					Boiler	TG	
1	2.	3	4	5	6	7	8
1	Badarpur	1	95	100	BHEL	BHEL	1973
2		2	95	100	BHEL	BHEL	1974
3		3	95	100	BHEL	BHEL	1975
4		4	210	210	BHEL	BHEL	1978
5		5	210	210	BHEL	BHEL	1981
6	Panipat	1	110	110	BHEL	BHEL	1979
7		3	110	110	BHEL	BHEL	1985
8		4	110	110	BHEL	BHEL	1987
9	Faridabad	1	55	60	BHEL	BHEL	1974
10		2	55	60	BHEL	BHEL	1976
11		3	55	60	BHEL	BHEL	1981
12	Bhatinda	1	110	110	BHEL	BHEL	1974
13		2	110	110	BHEL	BHEL	1975
14		3	110	110	BHEL	BHEL	1978
15		4	110	110	BHEL	BHEL	1979
16	Obra	1	40	50	KKBW	LMW	1967
17		2	40	50	KKBW	LMW	1968
18		3	40	50	KKBW	LMW	1968

Sl. No.	Name of Station	Unit No.	Present Rated Capacity (MW)	Capacity expected after LEP (MW)	Make		Year of Commi-sioning
					Boiler	TG	
1	2	3	4	5	6	7	8
19		4	40	50	KKBW	LMW	1969
20		5	40	50	KKBW	LMW	1971
21		6	94	100	BHEL	BHEL	1973
22		7	94	100	BHEL	BHEL	1974
23		8	94	100	BHEL	BHEL	1975
24		9	200	200	BHEL	BHEL	1980
25		10	200	200	BHEL	BHEL	1979
26		11	200	200	BHEL	BHEL	1977
27		12	200	200	BHEL	BHEL	1981
28		13	200	200	BHEL	BHEL	1982
29	Panki	3	105	110	BHEL	BHEL	1976
30		4	105	110	BHEL	BHEL	1977
31	H'Gunj	1	40	50	ENERGO	ENERGO	1968
32		3	60	60	BHEL	BHEL	1972
33		4	60	60	BHEL	BHEL	1972
34		5	60	60	BHEL	BHEL	1977
35		7	105	110	BHEL	BHEL	1978
36	Nasik	1	140	140	BA	CEM	1970
37		2	140	140	BA	CEM	1971
38	Paras	2	58	62.5	Poland	IGE	1967
39	Bhusawal	1	58	62.5	Poland	Siemens	1968
40	Koradi	1	115	120	AVB	Elekrim	1974

41		2	115	120	AVB	Elekrim	1975
42		3	115	120	AVB	Elekrim	1976
43		4	115	120	AVB	Elekrim	1976
44	Parli	1	30	30	ITALY	BHEL	1971
45		2	30	30	ITALY	BHEL	1972
46	Korba(East)	1	40	50	TAG	LMW	1966
47		4	40	50	TAG	LMW	1968
48		5	120	120	AVB	BHEL	1976
49		6	120	120	BHEL	BHEL	1981
50	Satpura	1	62.5	62.5	AVB	IGE	1967
51		2	62.5	62.5	AVB	IGE	1968
52		3	62.5	62.5	AVB	IGE	1968
53		4	62.5	62.5	AVB	IGE	1968
54		5	62.5	62.5	AVB	IGE	1970
55	Amarkantak	1	30	30	SG	AEG	1965
56		2	20	30	SG	AEG	1965
57		3	120	120	AVB	BHEL	1977
58		4	120	120	AVB	BHEL	1978
59	Gandhinagar	1	120	120	BHEL	BHEL	1977
60		2	120	120	BHEL	BHEL	1977
61	Dhuvaran	1	63.5	63.5	FW	IGE	1965
62		2	63.5	63.5	FW	IGE	1965
63		3	63.5	63.5	FW	IGE	1965
64		4	63.5	63.5	FW	IGE	1965
65		5	140	140	B&W, US	IGE	1972
66		6	140	140	B&W, US	IGE	1972
67	Ukai	1	120	120	BHEL	BHEL	1976
68		2	120	120	BHEL	BHEL	1976

Sl. No.	Name of Station	Unit No.	Present Rated Capacity (MW)	Capacity expected after LEP (MW)	Make		Year of Commi-sioning
					Boiler	TG	
1	2	3	4	5	6	7	8
69	Ennore	1	60	60	BHEL	BHEL	1970
70		2	60	60	BHEL	BHEL	1971
71	Tuticorin	1	210	210	BHEL	BHEL	1979
72		2	210	210	BHEL	BHEL	1980
73		3	210	210	BHEL	BHEL	1982
74	Vijayawada	1	210	210	BHEL	BHEL	1979
75		2	210	210	BHEL	BHEL	1980
76	Kothagudem	6	105	120	BHEL	BHEL	1974
77		7	110	120	BHEL	BHEL	1977
78		8	110	120	BHEL	BHEL	1978
79	Santhaldih	1	120	120	AVB	BHEL	1974
80		2	120	120	AVB	BHEL	1975
81		3	120	120	AVB	BHEL	1978
82	Bandel	1	80	82.5	B&W, US	WH, USA	1965
83		2	80	82.5	B&W, US	WH, USA	1966
84		3	80	82.5	B&W, US	WH, USA	1966
85		4	80	82.5	B&W, US	WH, USA	1966
86	Chandrapura	1	130	140	CE, USA	IGE, USA	1964
87	(DVC)	2	130	140	CE, USA	IGE, USA	1965
88		3	130	140	CE, USA	IGE, USA	1968
89		4	120	120	AVB	BHEL	1974
90		5	120	120	AVB	BHEL	1975
91		6	120	120	AVB	BHEL	1979

92	Durgapur-DVC	3	140	140	B&W, UK	GE, USA	1966
93	Bokaro	1	45	57.5	CE, USA	GE, USA	1953
94		2	45	57.5	CE, USA	GE, USA	1953
95		3	45	57.5	CE, USA	GE, USA	1953
96	Patratu	4	40	50	TAG	LMW	1969
97		5	90	100	TAG	LMW	1971
98		6	90	100	TAG	LMW	1972
99		7	105	110	BHEL	BHEL	1977
100		8	105	110	BHEL	BHEL	1978
101	Barauni	4	50	50	Poland	Poland	1969
102		5	50	50	Poland	Poland	1971
103	Chandrapur-ASEB	1	30	30	MHI	MHI	1972
104	Namrup	1	23	23		USA	1965
105	Bongaigaon	1	60	60	BHEL	BHEL	1981
106		2	60	60	BHEL	BHEL	1982
	TOTAL	**106**	**10413**	**10747**			